(b) Government is giving suitable encouragement to indigenous development of wind power units, depending on technical merit.

Progress in Wind Power Generation

2879. SHRI RAM AWADHESH SINGH: Will the Minister of ENERGY be pleased to state;

(a) whether it is a fact that wind power generation has made remarkable pro* gress in Gujarat, Karnataka and Tamil Nadu and if so, what are the details of machines installed and power generated and investments made Statewise; and

(b) whether Karnataka Financial and Industrial Development Corporation, Bangalore has invested heavily in wind power and if so, what are tbe details of the progress made so far by it?

THE MINISTER OF ENERGY (SHRI VASANT SATHE): (a) Yes, Sir. Details of the State-wise wind farms, capacity, number of machines installed, power generated and approximate expenditure are given below:—

State	Sites	Total Capacity (MW)	No. of Machine and Units Size	Units Genera- (kwh) Lakhs)	Approxi" mate cost ted (Rs. in
1 Gujarat	Mandvi	1.1	2x110 kw.	49	180
			14X55 kw.		
			3X22.5 kw.		
2 Tamilnadu	Okha	0.55	10X55 kw.	22	80
	Tuticorin	1.1	20X55 kw	33	180
	Kayattar	1.35	15X90	19	200
3 Karnataka	Talcauvery	0.55	5X110 kw.	—	90

(b) Karnataka Industrial Investment & Development Corporation Ltd., is implementing the wind farm project in Karnataka in association with Karnataka State Financial Corporation, Karnataka Electricity Board, Karnataka Industrial Area Development Board and Karnataka Power Corporation. The Department of Non-Conventional Energy Sources has sponsored and provided a grant of Rs. 60.5 lakhs for the project. The State agencies have contributed Rs. 5.00 lakh each towards local works for the project. One machine has been commissioned, two more are under commissioning and the remaining two are under erection.

Decline in power supplies

2880. SHRI RAM AWADHESH SINGH: Will the Minister of ENERGY be pleased to state whether there has bee$_n$ a steady decline in hydel-thermal mix of country's power supplies as reported in the Hindustan Times of 16th October, 1988 and if so, what are the reasons there-and what corrective steps have been taken or are proposed to be takn by Government in this regard?

THE MINISTER OF STATE IN THE DEPARTMENT OF POWER IN THE MINISTRY OF ENERGY (SHRI

KALPNATH RAI): Yes, Sir, The hydro-thermal mix in the installed capacity has declined over the years. The harnessing of hydro power potential is dependent on various technical and economic factors including resolution of inter-State disputes regarding sharing of water resources, en vironmental considerations, rehabilitation of oustees, difficult terrains, longer laed time required for investigations of hyd roelectric schemes and longer gestation period. These reasons contribute to slow development of hydro potential. Howevers a number of hydroelectric power projects have been proposed for construction in the Central and State Sectors for benefits in the Eighth Plan. External assistance is also proposed to be availed of for hydro power development in tbe country.

Survey on Energy Position in Rajasthan

2881. SHRI SANTOSH BAGRODIA; Will the Minister of ENERGY be Phased to state;

(a) whether the Central Electricity Authority has conducted a survey on en ergy position in Rajasthan; and

(b) if so, the estimate made about the present and future power generation in Rajasthan and the present availability of power there from internal and external sources?

THE MINISTER OF STATE IN THE DEPARTMENT OF POWER IN THE MINISTRY OF ENERGY (SHRI KALP-NATH RAI): (a) The requirement of Electricity for drawing up power prog-rammes is being projected at the National level under a system of periodic power surveys with which Central Electricity Authority is also associated.

(b) During the period April, 1988—i October, 1988 as against the overall net energy requirement of Rajasthan of 4977 MU, the availability from all sources was 4868/MU. According to 13th Central Power Survey Committee Report, the projected energy requirment in Rajasthan at the end of Eighth Plan would be about 19872 MU.

Hydro-Electric Power Project in Rajasthan

2882. SHRI SANTOSH BAGRODIA; Will the Minister of ENERGY be pleased to state;

(a) the number of hydro-electric po wer projects under execution in Rajasthan at present;

(b) the total MW of power being generated from those hydro-electric pro jects;

(c) whether Government have a proposal to take up the execution of tome more hydro-electric projects in that State; and

(d) if so, what are the details thereof?

THE MINISTER OF STATE IN THE DEPARTMENT OF POWER IN THE MINISTRY OF ENERGY (SHRI KALP-NATH RAI); (a) Ten schemes comprising major|medium, small and mini hydro-electric projects are at present under execution in Rajasthan.

(b) The total benefits of 111.25 MW from these schemes have been envisaged as under;

During the 7th Plan—103.515 MW

During the 8th Plan—8.38 MW

(c) and (d) Four new proposals for hydro-electric projects have been submit-